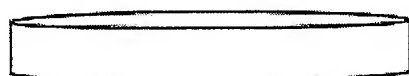


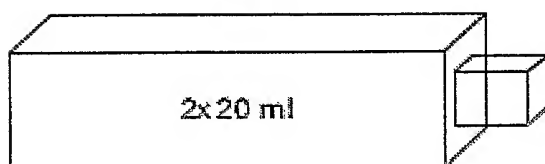
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**Protocol 1**  
**Generation of EBs from high-density**  
**cell suspension**

4 ml suspension with  $2 \times 10^6$  ES cells/ml



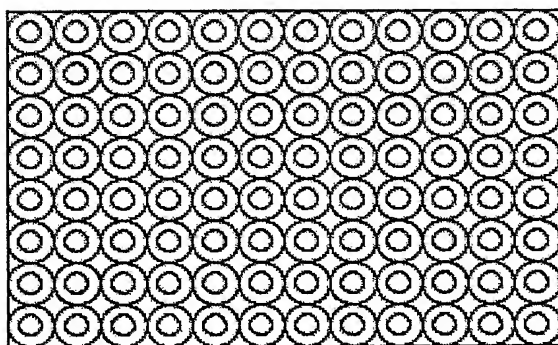
Agitation for 6 h at 50 rpm



Dilution 1:20 into 2 T25 flasks



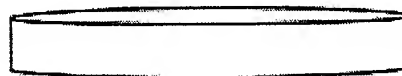
Agitation for 12 - 18 h at 50 rpm



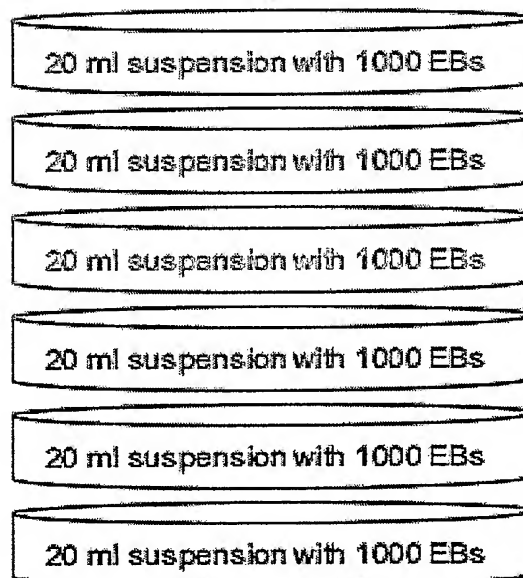
Final dilution and sorting of single EBs into  
96-well plates, adding of test compounds

**Protocol 2**  
**Generation of EBs from low-density**  
**cell suspension**

10 ml suspension with  $0.2 \times 10^6$  ES cells/ml



Agitation for 48 h at 50 rpm



Final dilution of EBs after 48 h, suspension  
culture for differentiation of cardiomyocytes

**Fig. 1**

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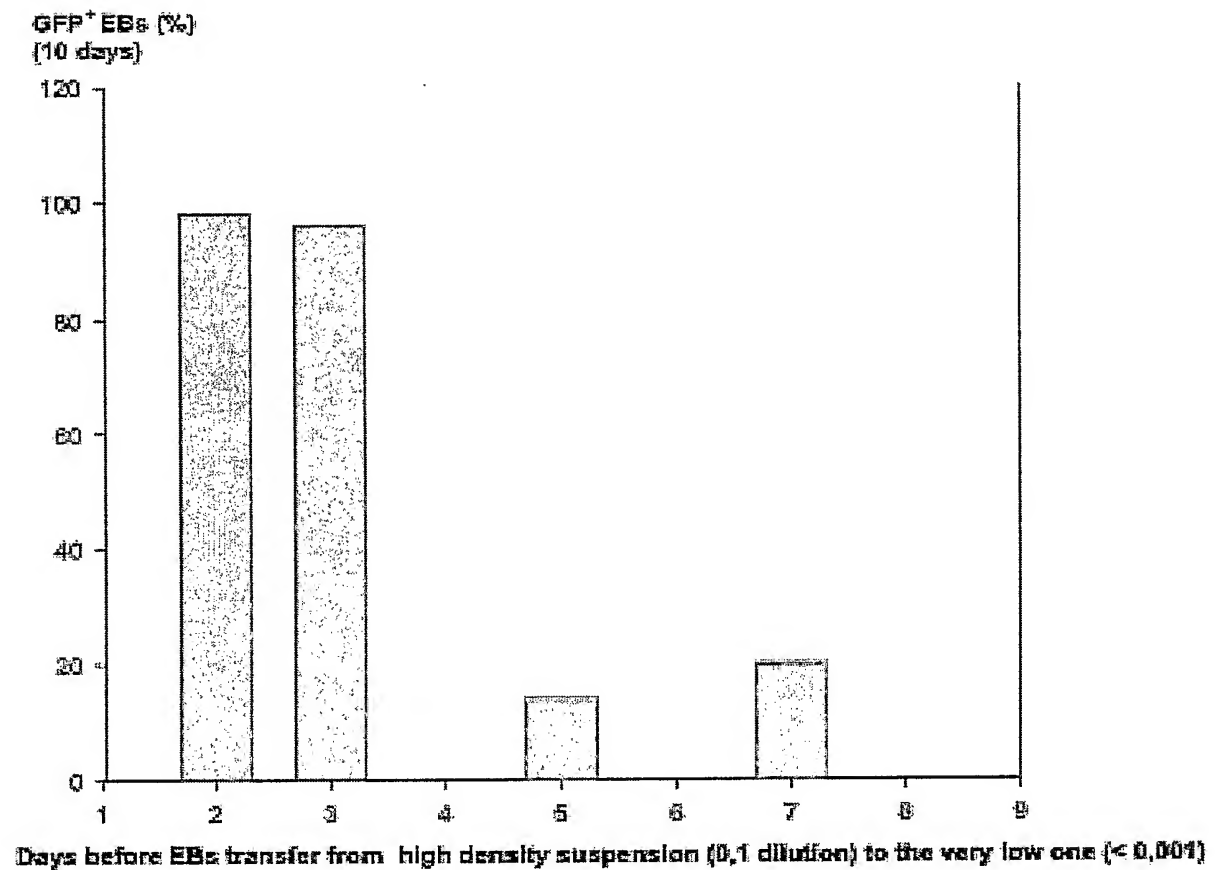


Fig. 2

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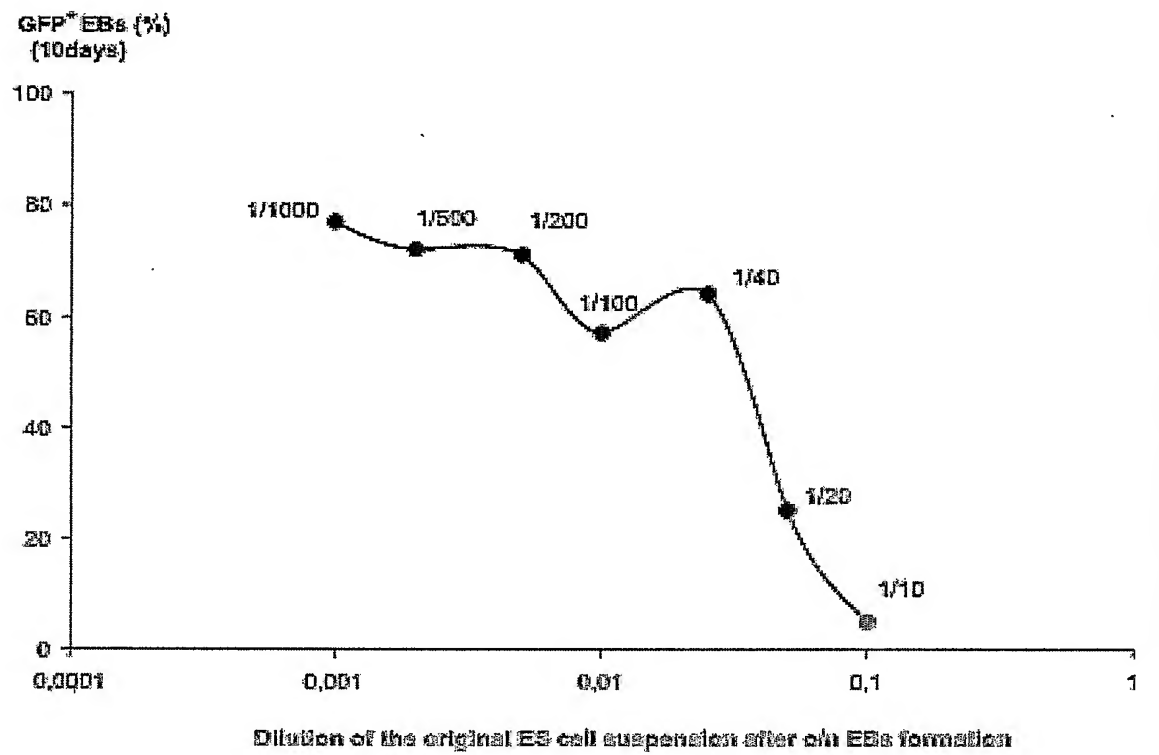
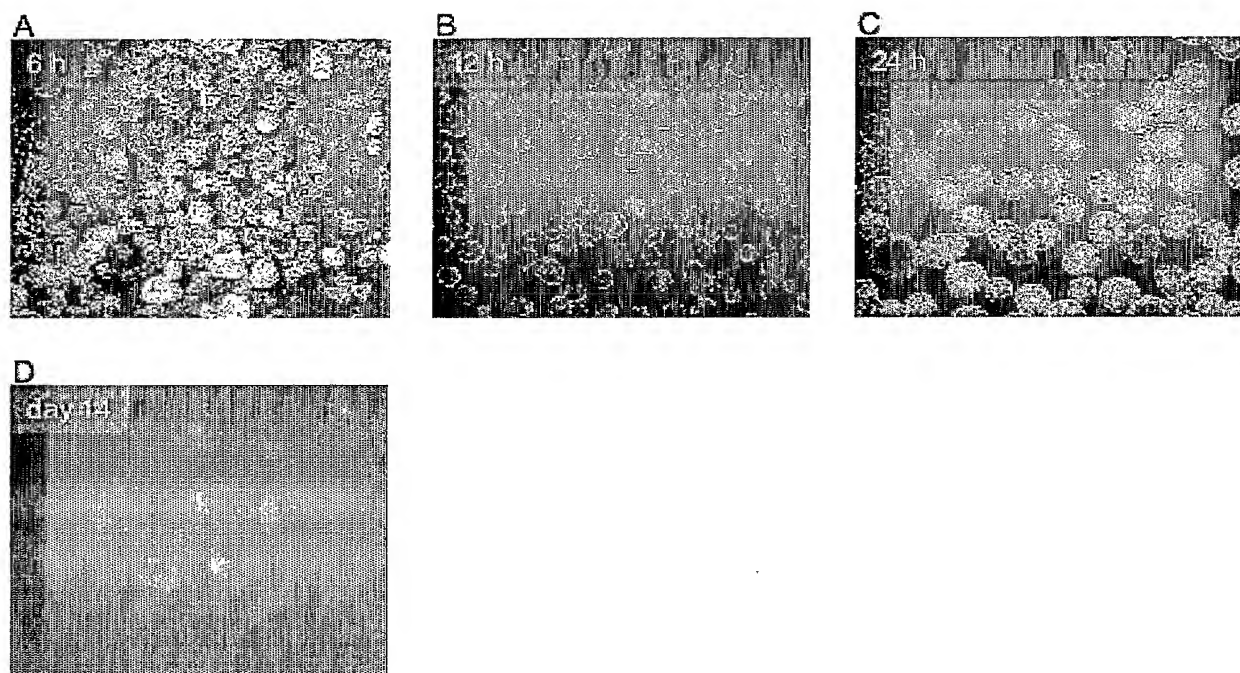


Fig. 3

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**Fig. 4**

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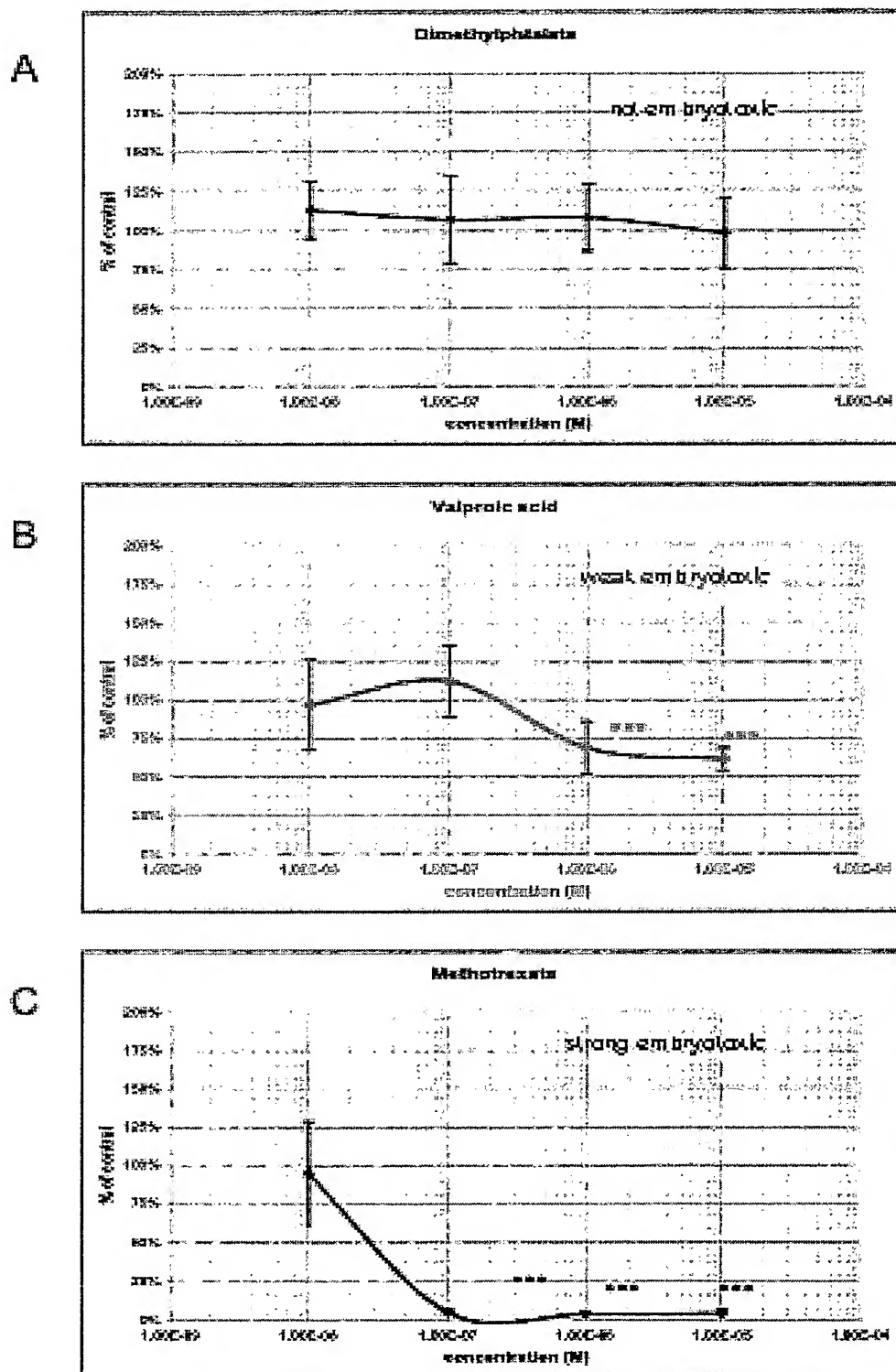
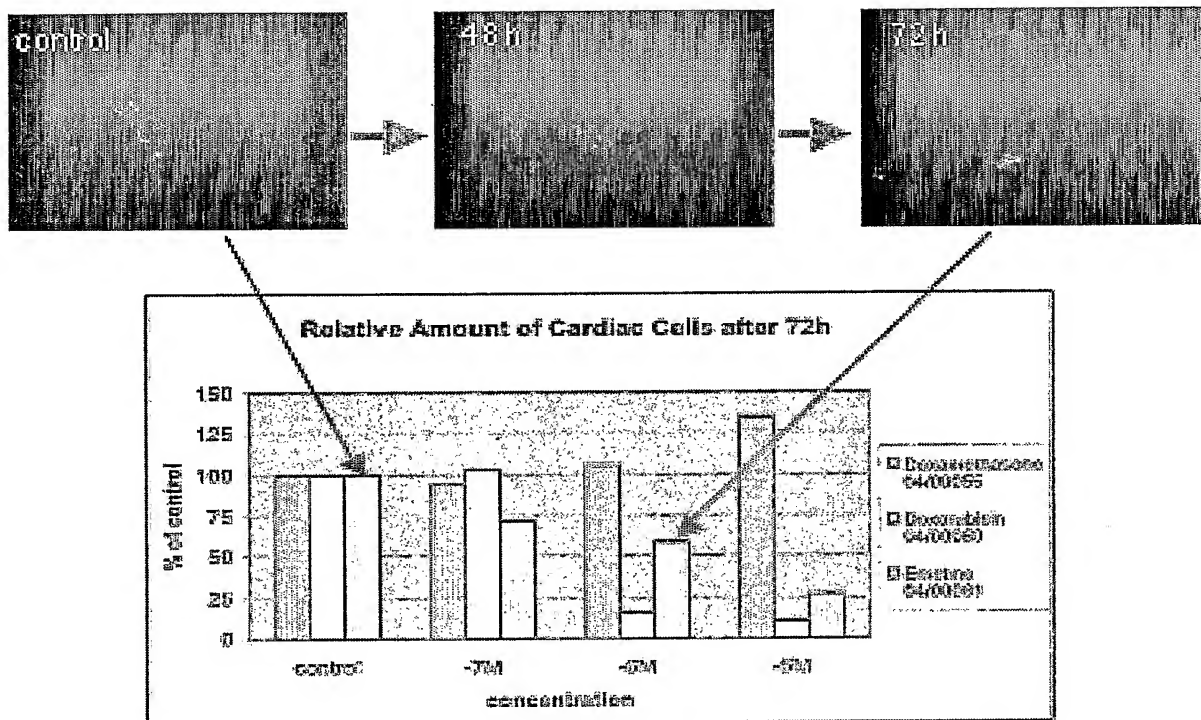


Fig. 5

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**Fig. 6**